

Purchasing Receipts

	Supplier	Line Item No	No	Tern	Purchased Item	Description	For Part No	Project	Equipment ID	Order Qty	Due Date	Received Quantity	Accounting Job No	Containe	Status	Receive	Price/Unit	Aging
PO039766	MES002- VC			Net 30		049 304 Sq Tube .75X.75X.(49W : MATERIAL: AISI 304/316 SEAMLESS STAINLESS STEEL SCUARE TUBING AS PER ASTM A554 MILL FINISH OR ASTM A269 MILL FINISH receive ft	No				5/18/2018		//80	No S071984	Stock	5/16/2018		Days
		2			mill Jest	.75X.75X.(65W: MATERIAL: AISI 304/316 SEAMLESS STAINLESS STEEL SCUARE TUBING AS PER ASTM A554 MILL FINISH OR ASTM A269 MILL FINISH receive ft						400		6071985	Stock	5/16/2018	\$ 2.75 / ft	(
		3			M304B1.500X1.50(1.500 : MATERIAL: AISI 304/316 SS BAR OR AISI 304/316 SS PLATE AS PER ASTIM A276 OR ASTIM A240 NOTE: AISI 303 NOT ACCEPTAISLE receive ft				12		12	S	271986	Stock !	5/16/2018 S	39.80 / ft	0
	-	5	ottoppo ottop		MT-4140-S- 1.000X10.000	AISI 4140 Steel Sheet/Plate						12	SO:	71987 SI	ock 5/	16/2018 \$ 8	38.60 / ft	0
		6	- Calebra		MT-4140-S- .750X10.000							12	507	1988 St	ock 5/	16/2018 S 1	51.68 / ft	0
						4140 Steel Bar 0.750 X 2.250: MAT'L: AISI 41140 / 4142 STEELL SHEET OR PLATE MINIMUM ROCKWELL C = 28 Rc MAXIMUM ROCKWELL C = 32 Rc ASTM A829, AMS 6395 receive it			,	6		6	\$07	11989 St	ock 5/	16/2018 \$ 2	0.67 / ft	0
		7		1.	500X2.000	4140 Steel Bar 1.500 X 2.000 : MATL: AUSI 4140 / 4142 STEIEL SHEET OF PLATE MINIMUM ROCKWELL C = 8 Rc MAXIMUM ROCKWELL C = 2 Rc ASTM A829, MS 6395 receive						6	S071	990 Sto	ck 5/11	6/2018 \$ 28	.99 / ft	0
	8	3		M4	.3 R A: A: B: G: O:3 UM MI UL TE ST KS Y: ST	140 Round Bar 75 : AISI 4140H DUND BAR PER SI41400R ASTM 304-02/-k-434- 2/-A193-3- AADE BT/-A29- /-A322-51 OR ISF-G41400 NIMUM TIMATE NSILE RENGTH=100 I MINIMUM ILD TENSILE RENGTH=66KSI eive ft				12		15	50719	Stoc	k 5/16/	(2018 \$ 5.85	5 / ft	0
					rec	eive if			Total: 860									

METAUX SOLUTIONS INC 2625 BOUL JACQUES CARTIER EST

LONGUEUIL, QUEBEC J4N 1L7

Tel.: 450 641-3330

Customer: 6323336

DART AEROSPACE LTD 1270, ABERDEEN STREET HAWKESBURY, ONTARIO K6A 1K7 Shipping Order

15/05/2018

Order

: 134879

Reference Bid

: 39766 : 27221

Ship

: PICK UP / PICK UP

Ship To

Same

Tel.: 1 613 632-3336

Item No.	Description	Qty	Oto Dali	D/O 0
	****** FACTURER E-MAIL ******* SUPER IMPORTANT SUR LE PACKING SLIP INSCRIRE LES HEAT N	Qiy	Qty. Deliver	B/O Qty
	******* FACTURER E-MAIL ******* SUPER IMPORTANT SUR LE PACKING SLIP INSCRIRE LES HEAT N			
	****** FACTURER E-MAIL ******* SUPER IMPORTANT SUR LE PACKING SLIP INSCRIRE LES HEAT N		<i>y</i> ,	
SSQT34340494	304 SQ TUBE .750 X .049 WALL		112	011-
	20 x 20 *******	400	160	240
	ht;9H855			
SSQT34340654	TUBE SS304 180 GRIT 3/4" X 3/4" X .065"		(2)	
	20 x 20' ******	400	400)	D
	ht;TS3041202			
SSQ1124	304 SQU 1.500	-/		1
		12.5	12.5	0)
	1 x 12.5'			/
	ht;268423	1		
MP141H	4140 HTSR PLATE 1.00" THICK		11311	×
	2 x 10" x 72"	434	434	(P)
4	HT: PM94723	1	7	/
1P13441H	4140 HTRS PLATE 1.750" THICK		-1-1-1	,
	2 × 10" × 72"	747	141)	9
(HT: PM94381			
P3441H		1	11	1
	4140 HTSR TFA PLATE .750 THICK P.M 1 x 2.25" x 64"1/4	(40 _	401	0
	1 A 2.25 X 04 1/4			/

METAUX SOLUTIONS INC 2625 BOUL JACQUES CARTIER EST LONGUEUIL, QUEBEC

J4N 1L7

Tel.: 450 641-3330

Customer: 6323336

DART AEROSPACE LTD 1270, ABERDEEN STREET HAWKESBURY, ONTARIO K6A 1K7 Shipping Order

15/05/2018

Order Reference

: 134879 : 39766

Bid Ship

: 27221 : PICK UP / PICK UP

Ship To

Same

Tel.: 1 613 632-3336

Item No.	Description	Qty	Qty. Deliver	B/O Otv
	HT: PM94680			23
MP11241H	4140 HTSR PLATE 1.5" THICK	71	1711	do
	1 x 2" x 72"			7
	HT: PM94823			
MR3841H	4140 HTSR .375" DIA	15	15	6
	1 X 4'			7
	1 X 5'			
	1 X 6'			
	(ht;186784) N			
	Chin journay addard			
	ship journey collect			
	jp			

3/4 jours

Page: 2

Shipping :	Ref. :	
Merchandise Received:		



Dart Aerospace Ltd. 1270 Aberdeen St Hawkesbury, ON K6A 1K7 Canada

Tel (613) 632-5200

PURCHASE ORDER PO039766

Supplier:

MES002-VC

Metaux Solutions

2625 boul Jacques-Cartiier Est

Longueuil QC

J4N 1L7 Canada Phone: 800 558 8858 Fax: 514 633 8044 PO No:

PO039766

PO Date: Due Date:

5/1/18

5/10/18

Purchase Order Revision:

Revision Date:

Ship-To Contact:

Lavoie, ChantalPhone:

clavoie@dartaero.com

Ship To:

1270 Aberdeen Street

Hawkesbury

ON

K6A 1K7 Canada Phone: 613-632-5200 Via:

Ground Net 30

Pymt Terms: Freight Terms:

Special Comments: BID 27221

Line				Items						
ltem	Part	Supplier Part No	Description	Status	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (CAD)	Extende Price
1	M304TS0.750W.049		304 Sq Tube .75X.75X.049W : MATERIAL: AISI 304/316 SEAMLESS STAINLESS STEEL SQUARE TUBING AS PER ASTM A554 MILL FINISH OR ASTM A269 MILL FINISH receive ft	Firmed	5/10/18	400 ft		400/h	\$3.80/ft	\$1,520.00 6 2019
2	M304TS0.750W.065		304 Sq Tube .75X.75X.065W : MATERIAL: AISI 304/316 SEAMLESS STAINLESS STEEL SQUARE TUBING AS PER ASTM A554 MILL FINISH OR ASTM A269 MILL FINISH receive ft	Firmed	5/10/18	400 ft	6 ft)	400 ft	\$2.75/ft MAY 1 6 2018	\$1,100.00
3	M304B1.500X1.500	1 3 0 8 4 4 4	M304 Bar 1.500 x 1.500 MATERIAL: AISI 104/316 SS BAR DR AISI 304/316 ISS PLATE AS PER ASTM A276 OR ASTM A240 NOTE: AISI 303 NOT ACCEPTABLE DECEMBER ASTR ASTR ASTR ASTR ASTR ASTR ASTR AST	Firmed	5/10/18	12 ft	12	12 ft	\$39.80/ft	\$477.60
	MT-4140-S- 1.000X10.000		ISI 4140 Steel heet/Plate	Firmed	5/10/18	12 ft	12 Of	12 ft \$	88.6008333/ft \$	1,063.21

Plex 5/1/18 2:50 PM dart.lavoie.chantal

DAS 11 9-89

DAS

9-89

				Items						- 1
Line ttem	Part	Supplier Part No	Description	Status	Due Date	Order Quantity	Received Quantity		Unit Price (CAD)	Extended Price
Line Item Note	2 pcs cut at 6 ft ler	gth)		
5	MT-4140-S- 1.750X10.000		AISI 4140 Steel Sheet/Plate	Firmed	5/10/18	12 ft	12 (ft)	12 ft	\$151.67916/ft MAY 1 6 20	
ine Item Note	2 pcs cut at 6 ft len	gth			1		10			
	Mt-4140-S- 0.750X2.250		4140 Steel Bar 0.750 X 2.250 : MAT'L: AISI 4140 / 4142 STEEL SHEET OR PLATE MINIMUM ROCKWELL C = 28 Rc MAXIMUM ROCKWELL C = 32 Rc ASTM A829, AMS 6395 receive ft	Firmed	5/10/18	6 ft	6	6 ft	\$20.6666/ft MAY 1 6 201	
	MT-4140-S- 1.500X2.000		4140 Steel Bar 1.500 X 2.000 : MAT'L: AISI 4140 / 4142 STEEL SHEET OR PLATE MINIMUM ROCKWELL C = 28 Rc MAXIMUM ROCKWELL C = 32 Rc ASTM A829, AMS 6395 receive ft	Firmed	5/10/18	6 ft	oft)	6 ft	\$28.991666/ft MAY 1 6 201	\$173.95
8	M4140H-R0.375	E C C C C C C C C C C C C C C C C C C C	4140 Round Bar 375 AISI 4140H ROUND BAR PER AISI4140OR ASTM A304-02/-A-434- 3C/-A193-03- GRADE B7/-A29- 03/-A322-91 OR UNS#-G41400 MINIMUM ULTIMATE FENSILE STRENGTH=100 KSI MINIMUM //ELD TENSILE STRENGTH=66KSI eceive ft	Firmed	5/10/18	12 ft	(n) 15	12 ft	\$5.85/ft	\$70.20
									Grand Total:	6 349 11

Order Notes Plex 5/1/18 2:50 PM dart.lavoie.chanta

Order Notes

Procurement Quality Clauses

A005 right of entry

A012 chemical and physical test report

A016 personnel qualification

A017 raw material identification (as applicable)

A026 certification of material conformance

A041 quality management system

A042 dart notification by supplier

A043 retention of quality documents

A048 counterfeit parts avoidance, detection, mitigation and disposition program

A049 supplier awareness

Terms & Condition of Purchasing(Suppliers) and Procurement Quality Clauses are an integral part of our AS9100 requirements. To learn in detail, please visit www.dartaerospace.com for further explanation.

Plex 5/1/18 2:50 PM dart.lavoie.chantal

1		- IN THE LOTTON FORIN
MATERIAL:	0450 1AY 162	750W.065 PO/BATCH NO.: 039766/50719
MATERIAL CERT REC'D: QUANTITY RECEIVED: QUANTITY INSPECTED: QUANTITY REJECTED:	Yes 400' 400'	THICKNESS ORDERED: W. 065 THICKNESS RECEIVED: W. 065 SHEET SIZE ORDERED: SHEET SIZE RECEIVED:
DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	YIN	
CORRECT FINISH	MA	
CORROSION CORRECT CRAIN DIFFERENCE	Y (N)	
CORRECT GRAIN DIRECTION CORRECT MATERIAL PER M-DRAWING	(X) A	4
CORRECT THICKNESS	N	A5tur A 554-1/2
PHOTO REQUIRED	(Y) N	75 - 7
CORRECT REF # TO LINK CERT	YN	
CORRECT MATERIAL IDENTFICATION	N	TPO # 153041202
CORRECT M# ON THE MATERIAL	(A) N	
DOES THIS MATERIAL REQUIRE	\	
ENGINEERING SIGN OFF	YM	
DOES THIS REQUIRE AN	1.0	
EXTRUSION REPORT	YM	
CLIT CAMPLE TO		
COT SAMPLE PIECE	OF MATE	RIAL AND PREFORM A HARDNESS CHECK

CUT SAMPLE PIECE OF	MATERIAL A	ND PREFOR	M A HARDNE	SS CHECK.	
TYPE OF MATERIAL SIZE OF TEST SAMPLE	HRC	HRB	DUR A	DUR D	WEBSTER
HARDNESS / DUROMETER READING	oforo I I - I				

testers located in the Quality Office

QC 18 INSPECTION	
INSPECTED BY: DAS	ENGINEERING SIGNOFF (if required)
1012001.	SIGNED OFF BY:
DATE: 9-89MAY 1.6.2019	DATE:
10 20.3	DATE.

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

001738

COMPANY WITH QUALITY ASSURE SYSTEM ISOSOFI2000

FOSHAN VINIMAY STABNLESS STEEL CO.,LTD. ADDRESS ROBEL WAS INVESTIGATED. INVESTIGATED TO THE DESCRIPTION WITH DESCRIPTION FOR CHEEN.

	MESCATE 3.4 AC	SCORETING TO HE +	1000		10.0	TEL: 446-757-4663GE			병	EL TEST	CENTIFICATE		PAN UNIC 157454,0150	Pestalisis					
	10.4	16-4		Part of the last o	A STATE OF THE PARTY OF THE PAR	ZAYK	H		RCM					1			T N	25	
	1					1	4		A	- 6	2000			1			Ľ	1	
	Peoples & A	Mary Mary 13 and 15 and	W. CH. Apple	O WILL BEST THERE				4000	Desired One	2							Samin o	Wheelest Test.	
2	1	1	2	0.00.0	2		•			•	п	۵	ā	6	NA.	BREE	2		
2	e e e	Ī	1	1	2										•	A martine day		in the state of the state of	
						40.00	arte .	812.00	8000	28,02	2,0-19.6	18,3-20.0	•	,	200	2575	9	3200	18700
-	T85041202	1/2'0.086	250	180	8	0.046	0.368	0.960	0.0540	8.00051	8.022	18.150	-	,	ğ	1 23	48	2119	5
(A)	Toward dains	HORSE Lines H	ŧī	383	13	0.046	0.300	0.040	0.0340	O.QUÇET	8.0zz	18.150	,	,	304	524	\$	8	4
•	TSSOATTE	640.09kg	8	130	8	0.048	0.354	0.039	0 there	0.0000	\$.021	18.146	1	,	306	623	48	218	97.1
-	T53041202	3410.086	991	*	8	0.048	0.366	0.940	0.000	16004	\$ D22	18,156	1.5	-	Ŋ,	23	9	218	470
10	T83041202	344'0,086	177	180	92	0.048	0,365	0.940	0.0340	0.5031	8,022	14.160	~	-	306	8 29	9	218	170
63	785041208	718*0.085	豆	*	8	0.050	0.258	2960	0.0841	0.00522	8.025	18.151	-	,	ă	200	8	220	160
-	T\$3041202	1-144-0,085	25	200	8	0.046	0.366	0.00	0.0040	0.0001	8,022	18.160	-	-	ğ	624	9	219	\$
٠	T83041202	1-1/2/0,086	8	160	R	0.00	0.356	0.940	0,0340	0.0031	8.022	18.150	-	-	300	5236	80	219	178
a	T85041202	1-1/2*0.068	ā	生	R	0.049	6,366	0.940	0.0340	0,0001	8.022	18.150	-	-	š	Š	9	218	27
5	T83041202	2-0.065	\$	994	8	8500	0.366	0.940	0.0340	0.0031	B.022	18.160	,	-	30.	\$24	8	218	439
ı	183041202	2"0.086	100	ME	R	200	0.366	0.000	0,0540	0.0031	6.022	18.150	,	-	ğ	200	64	216	R
12	183041204	3'0.12	8	当	8	0.067	0.367	2000	6.0342	0.0003	BLOSK	18.182	,	,	ğ	100	69	ä	181
\$	T88041202	320:008	22	AL.	8	0.049	998-0	0.940	0.0340	0.0031	8,022	18,160	-4	,	Š	1 23	43	219	57
7	T85041202	344-344-0.065	102	雅	8	8900	0.366	0.940	0,000,0	15000	B.022	18.150		~	ğ	100	45	219	178
18.	TBSD41202	1-184-1-1/4-0.085	167	PAR.	8	0.049	0.966	0.840	0,0540	1 1000 0	1.000	18,180	1	,	8	202	46	218	170
=		T\$3041262 1-14:1-1/4-0.088	23	188	8	0.549	0.366	0.940	2000	0.0001	2200	18.150	,	1	304	200	48	248	470
2	_	T83041202 1-112-1-12-0.088	8	180	24	0,040	0.355	0.967	0,8340	10000	8,022	18.150	,		304	959	88	219	575
=	1 1	1830412CZ 1-1Z-1-1Z-0.086	110	¥	8	0.049	0.366	0.940	O DS40	0.0001	B.022	18.150	,	1	304	4739 4739	40	548	170
2	T85041292	S/8-5/8-0.005	墅	8	8	0.049	0.356	0.040	0.000.0	0.0031	8.022	48.150	`	_	386	8	49	219	178
						20.00	97.00	201.00	RECH	18,000		\$4.6-11.J	,	80-0.878	din	5880	8	sú:	11.00
8	184091200	3*0.065	110	1	a	0.005	0340	0.000	0.000.0	0.0002	,	11.025	' '	0.300.0	4100	212	**	2	\$
2	Tattenator	2-1/2-0.065	¥	生	8	1000	CANAL STATE OF THE PARTY OF THE	71	01000	0.002	,	11.006	,	50000	410	215	*	4	B
	100					Y											,		
		Control of the second second second second	William A	A Miles	711	X	1	1 80 TE		1	100								

RELEASED 2014 -05- 26

14.05.20 09.10.16

08.08.28

A.AAA = WIDTH IN INCHES
.TTT = WALL THICKNESS IN INCHES

WHERE:

PURCHASE MATERIAL: AISI 304/316 STAINLESS STEEL SQUARE TUBING ASTM A554 MILL FINISH ASTM A269 MILL FINISH

OR O

FINISH

M304TS A.AAA W LTTT

PART NUMBER:

WIDTH

PART NUMBER:

EG. 0.75" X 0.75" X 0.049 WALL = M304TS0.750W.049

REV. D SHEET 1 OF 1 SCALE 304/316 SQUARE TUBING
COPYRIGHT 6.2001 BY DART AEROSPACE LTD
NEW COP DESCRIPTION

DART AEROSPACE LTD

HAWKEBBURY, ONTARIO, CANADA

APPRAVING NO.

RE AJS DS PY DB AJS "SEAMLESS" REMOVED FROM PURCHASE MATERIAL
SPECIFICATION (SEE NCR14-3818)
"SEAMLESS" ADDED TO PURCHASE MATERIAL.
ASTM A288 ADDED TO PINISH.
REASON: SPEC ADDED FOR 1/2" TUBING
DIAMWING MOVED TO "P" SIZE BORDER. FINISH
ADDED (SEE NCR 08-045 FOR DETAILS).
NEW ISSUE M304TS Sa MFG. APPR.
APPROVED
DE APPR.
DATE 14.05.20 CHECKED DESIGN DRAWN A A o 8 ۵

2

8

۵

ند و لام	10	T.	T.	Ť	T.	T	*	<u>(</u>	_	_	_	_	1	7	T		_	T-	X	:,	Ţ	1	T	1-	11	7	T	Па	
	7	22	+	+	PER DE	1		-	+	-	-	1	_	4	4-	1	7	100	5 25	1 3	172	2 130	7 730	-		3 T		OF IN SECTION	Yamilgo
				1	Separate P.	+-	-	4-	-	-	20216080	1423/14224	and second	1021 przeft 1	ZEZAGER	20000000	ENTERNACIE	SEEDANGER	TENNESS.	TERROTES	GIMPORES	12000000	JUEN FROM						IIA AM
		BOTO ZEL	SECTOR		SECTION AND ADDRESS.	SECTION STATES	SHIPT SHALTHA	S-Print-Land-	SECTION LABOR	SHORARAR	3,07998	25.04.6	2:0.005	20000	\$400.00m	Sales And	suppress.	CBG70,512	apparate .	SECTION	entra line	SHOOT SHE	SMOTOLPT.		I	No. of Lot, Lot, Lot, Lot, Lot, Lot, Lot, Lot,	OT LECENTARIES	ACTIVATED IN STRAIGHT	CONTRAINY WITH QUALITY ASSURES THEFT IN
		番	3		3	3	8	25	5	i	3	8	8	2	B	18	H	3	1	5	3	F.	K				1	1	Marshan
		18	¥		i	18	ğ	8	1	4	Ę	斯	É	8	斬	ŝ	1	朝	8	馬	8	ŝ	8		2			300	
		8	R	+	120	+		1	+	-	+	8	R	L	-	100	8	Ħ	8	M	18	8	10	-	1				
			B 88.5	100	1-	+	+	+-	+-	+	-	100	8	+-	-	-	S and	0.000	0	D.000 8	0. 600	0 6003	8	40.00	9	4	1		
		•1	1	arie erse	State ages	Brero gagra	-		Page 1	Stero spere	-	٠.	20	N SEC	73 (885)	2000	2300		0.5	S SECO	Park's	o Becto	CORR OL	1	D		Ľ		Workson.
		1	0.000	1	1 -	See of See		S CONTRACTOR	-	1	0,000	DOCT BOTT	dego dego	DECT CHES	Despe Cours	David Over	0.000	100 July 1	coins asses	entario conse	acada Jahan		0.000 0.000	Merchan darter	f	and in		-	Director.
4		S PLANS	2	+	1-		4-4-			00000	etante o	020070 20	Posta S	Percuro con	0,0001	Manage Co	100000	250gTB 14	replie Co	3 P.	-	\rightarrow	90007	STORE BOT			₽.		A CHARGO
のおおか		-		-	2	100	1	5	5	E BAGGE	803		T NAME OF	5	CO	1 0 000	0.00	Search So	-	200	-	-	-	and and an		1	No.	STATE OF THE A	AMPAN SAMANGUAN MANAMAKAN KAMANAKAN KAMAN MANAMAKAN SAMAN MANAMAKAN KAMAN KAMA
1		11,000	11.000	F. Li-Otts		_	10,160		-	日音	_	10.102	_	Tal Tal	10 tou		10.400	10.10/	-1		-	1	~	grainette 31	Q		1		
1		,	-	-	-	-	-	,	~	٦	-	-		-		,	-	-	-		7	-	-	6	8				0
	,				-	-	~	-	-	-	-	-	-	•	-	-	_	-		-	1		7				1	A CONTRACTOR OF STREET	
٠.		Ann		1	3	Ä	ä	- PB	ž	Ħ	30.	15	1	5	100	101	*	整	Ä	#	ğ	ğ	ă	H	8		•	"	T. Cheuline
		* ***			皇	2	9	200	1004	200	100		B	125	\$20		2		5	2	2	g.	100	Ħ					
		***	18		3	8	8	a .	a a	â	8	2	à		8	8	8	8	\$	8	8	a	8	8					
		1			*	210	240	12	2	2	2	ŭ	N.	2	27	27	3	2	1	2	2	3	2	N I			1		
																		\perp		1	1						1		
		1	薦	4	\$	3	3	3	3	9	9	ğ	3	9	3	3	3	ğ.	ם	9	8		3				1		

						1
MATERIAL: 130		500X	1300	PO / BATC	H NO.: <u>03</u> 5	766/50
DATE:	AY 162	0.69	-			/
MATERIAL CERT REC'D:	125		TI	HICKNESS ORDE	RED: /	900
QUANTITY RECEIVED:	12			IICKNESS RECE		
QUANTITY INSPECTED:	3)		_			500
	X			HEET SIZE ORDE		///
QUANTITY REJECTED:	2		. SH	IEET SIZE RECE	IVED:	///
	NCR	T				
DESCRIPTION	(Check			COMMEN	TC	
DEGGINI HON	Y/N)			COMMEN	15	
SURFACE DAMAGE	Y (N)					
CORRECT FINISH	(Y) N					
CORROSION	YN					
CORRECT GRAIN DIRECTION	(Y) N					
CORRECT MATERIAL PER M-DRAWING	(Y) N	Actor	1 1276	2		
CORRECT THICKNESS	Y) N	7 70 700	- // /			
PHOTO REQUIRED	X (M)		, ,			
CORRECT REF # TO LINK CERT	YN	Heats	# 268	473		
CORRECT MATERIAL IDENTFICATION	(X) N	7 7,	0.00			
CORRECT M# ON THE MATERIAL	(Y) N			***		
DOES THIS MATERIAL REQUIRE	0			~		
ENGINEERING SIGN OFF	Y (N)					
DOES THIS REQUIRE AN	1					
EXTRUSION REPORT	YN					
	\cup					
CUT SAMPLE PIECE	OF MAT	ERIAL AN	ND PREFO	RM A HARDNE	SS CHECK	
	RECO	ORD RESI	JLTS BELC)W	oo on Lor.	
		HRC	HRB	DUR A	DUR D	WEBSTER
TYPE OF MATERIAL					20112	WEBGIER
SIZE OF TEST SAMPLE						
HARDNESS / DUROMETER READIN	NG					
	testers	located in t	he Quality Of	fice		
QC 18 INSPECTION				ENGINEER	ING SIGNOF	F (if required)
DAS						
INSPECTED BY:			SIG	SNED OFF BY:		
DATE: 9-89AY 16	2018			DATE:		

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

SPECIFICATION CONTROL DRAWING

D

PURCHASE MATERIAL: AISI 304/316 SS BAR OR AISI 304/316 SS PLATE (NOTE: AISI 303 NOT ACCEPTABLE) PART NUMBER: EG. 0.5" x 3.0" BAR = M304B0.500X03.000 EG. 0.5" X 12.0" PLATE = M304B0.500X12.000 ASTM A276 OR ASTM A240 M304B T.TTT X WW.WWW THICK WIDTH WHERE "T.TTT" = THICKNESS IN INCHES AND "WW.WWWW" = WIDTH IN INCHES

SPECIFICATION:

2010 -11- 30 E

REFORMAT DWG, ADD SPECS (ZN D6-1), REF PAR 08-020A ADDED PLATE TO PURCHASE MATERIAL, ADDED PLATE RELATED SPECIFICATIONS, AND EG.; CHANGED TITLE FROM "304/316 BAR" TO "304/316 BAR/PLATE" CP MB 09.07.15 10.11.25

DESIGN DRAWN CHECKED

DART AEROSPACE LID
HAWKESBURY, ONTARIO, CANADA
M304B

REV.

DESCRIPTION

ВЧ

05.06.10

DATE

NEW ISSUE

APPROVED MFG. APPR

10.11.25

TITLE SCALL
304/316 BAR/PLATE NTS
COMPRIGHT © 3003 BY DART AEROSPACE LTD
INSCOLLAGE ROWSH OF SCHOOL SCHOOL

SHEET 1 OF

REV. C SCALE STN

В

0

Acciaierie @ Valbruna s.r.A.

Produtore: ACCIAIERIE VALBRUNA 3.P.A.

Sisto of ferniture: Hot rolled - Annealed Cold Drawn







INSPECTION CERTIFICATE CERTIFICAT DE RECEPTION

Citable / Bally Ferri Parameter Citate

Avista di Spedizione: Linksweigsmanne D-VI 16001200

Ordine nr. 47690 PENN PO19727

Tipe of Einterations: E+AOD Entered to starting process Node foliographer Centifications MEST806705/2016/ ...

CERTIFICATO DI COLLAUDO ABNAHMEPRUEFZEUGNIS

EN 10204 (2004) , 3.1 .

Conferms ordine on Ei18000474 Western abress

Marchio of Fabbrica:

Zeinden Eine Lipinsponertes Trade verfi Tiefe de l'au pe processon

Puntone del Cobquidation F.ZEINTRIS sucredies Wenturmanies F.ZEINTRIS capitales sucressiones contract P.TIFICATE JELAUDO

IN THE PROPERTY AM6 5639 H S30400 A AMS-QQ-S-763 D 304L A.CF ASME SA276 2013 630400703 A,CF (2) ASTM A182 2014A \$3040003 A (5) ASTM A278 2016 \$3040003 A,CF 2015/

34.44.0G

Lotto nr.

1000. 100 H

606503240

TO SHAKE IS

er arekar

. . . .

212.

CN-ECT.

7-19-

715 ...

ASTM A370 2014. MIL-S-862 B/1 304/304L

VSI 0 304/304L A.CF AMS 5647 J S30403 A ASME 5A182 2013 830400f03 A (0) ASME SA320 2013 86 CLASS1 (3) ASTM A193 2014A BB CLASS1 ASTM A314 2008 \$30400/02 ASTM A473 2001 830400/03 (6) NACE MR0103 2010 930400/03 A (DSECTION II PTA 2013 EDITION (1)SECTION II PTA 2013 EDITION (1)SECTION II PTA 2018 EDITION (5) For products machined directly from ber refer also

(8)Cherical analysis suby.
(7)Technical circulus 1:2011 Published 2011-08-14 Qualita: T-304/304L PENNMET 2000

VANCOUS TO SERVING

ASME SA193 2013 86 CLASS1 (1) ASME SA479 2013 530400/03 A (4) ASTM A282 2013 PRACTICE E ASTM A320 2011A B8 CLASS1 ASTM A478 2014 830400103 A NACE MR0175 2009 53040003 A (7)

AISI 304/304L

AMS-QQ-8-763 D 304 A,CF

(D/F or products macricod directly from but to his to his see SLATS.
(2)SECTION II PTA 2013 EDITION MISECTION IT PTA 2013 EDITION (5) DASTU AGTE (7)AHOUNACE MIRO 178/180 15166-3, secured ealtion 2008-10-15

SULT FICK TE Marca: 1:16 Tollerenze: ASTM A484-15 TABLE & Northeanan Brandfrida Punzoreture: 304/304L AISL Tel prima utili servade l'Tele rosce Mary A. . I Kanazoichrung/katerg/Merauspo Pps, Nr. Oppeso Dinensioni - In-The second Pazz Pase-LO Livery to Livery to the Livery Greater Proper Posts 0010 1,6000 x 1,5000 149/ 151. 268423

ry condition Problem of the terresponding product less of Valid to found the Managarien to Policy State of Santamento | Santamento | Routings | Arungarien to Santamento | Santamento | Routings | Arungarien to Santamento | Sant TEST ALLO STATO DI FORNITURA apa sobro el malerial sel come entregado Strigge Parking and Parkin DUCEZZZ F Anders Breis HB Rp 0,2% Ros E 40 RA RH Valori richtesti 30 min 50 max : .140 12,5 88 L . 1 223 . 70 49 68

TEST ALLO STATO DI FORNITURA Test on delivery condition / Pritchung aut notarberettern a bokult / Test of felet de fourniture / Prveba sobre of malarial así come entregado TEST min A Grain size for ASTM E112 He chanical properties according to ASTM AS79.

Analisi chimica

Colots Alvel	nie -		1.	18,90	Cren	***	-	mit at Arababy A	elle otate	•					;
SchnekerCould	7		200	20,66	1.09	1.00	10,00	l:		0.000	·		7.	T-	1
	C%	SI%	Mn %	Cr %	Mo %	Cu %	***************************************	Co %	P %	5%	0.190	·	 		1.14
268423	0,018	0,39	1,68	18,52	0.38	0,40	8,05				N %				
Produced w	ighout clas	s I-II Ozo	ne deplet	ולצמונג טו	head		2,00	0,120	0,034	0,028	0,094			1	.

Solution hast treated free from continuous carbide natwork Micro and mecro otch test: DK

Vicenze, 21/01/16 MOLINCED .

Il callen Salves di Stabilinante i der Weins sachrens legage, ytens inspector i L'agent d'une M. Rizzottpl. Fluid

Pagina - 1 di 2









CERTIFICATO DI COLLAUDO ABNAHMEPRUEFZEUGŅIS ... INSPECTION CERTIFICATE CERTIFICAT DE RECEPTION EN 10204 (2004) , 3.1 ,

CONTILL MANAGEMENT ZARAS IN ÉTALLUTED BANTOLOGO MECALITA

Citenie / Bestelen Purchesen Client

Avviso di Spodiziono: Untimerating Sales D.VI16001290

Omine Ar. 47690 PENN PO19727

Tipe di Elaboraziona: E+AOD indirectional discussions agreed a processor Cardificato nr: MEST808705/2018/

Conferme ordine nr. El16000474 Warted A Create War

Marchio di Fabbrica: Tiletor die Wilsenweiser Terris die Konne productes Kall die Konne productes

Punzone del Colleudatore:

" MATE TOMPTION

4.74

3 14.

Absence of crecks at 20 x magnification after bend test. Reduction ratio = 20,3 : 1 Annealing temperative: 1940'F for 1 h/water, Material is DFARS Compilent

intergranular cortosion test par ASTM A282 press. Et ok.

Produtore: ACCIAIERIE VALBRUNA S.P.A.

State of familiurs: Hot rolled - Annealed Cold Drawn Europe Debugs and

Sono stele roddizista tutte in condizioni fichieste Die gestel im Autorderungen bie d. Autore untell The metadal has byen tunktoop in encondence wil be treseled in die troop goalbere wax exige al b

Controllo antimpscolanza; OK

Controllo visive e dimensionale: coontra le exigenze

Mekad and manufactured in itely

No weights of weld repair. Material free from Mercury contamination

We declare that the shifted product is chocked for radic active contemplaton through Portal Bysic to when it leaves the production plant.

We declare that the antitree product is another for four scars concentration investor contents and the product of product in the Cashiny Management System is Cartified acc. Pressure Equipment Directive 97/23/EC Annex 1.4.4.3 by TUEV and LLOYD'S

Any act of tempering, modification, siteration, counterfelling and/or faisfication and/or any other addits which modifies the contents of this test centiles which conditions and product its rights and interests before any competent court, suffectly and jurisdiction. Maxival and/or Valoius grades/products are manufactured with legie tochniques to control composition, distribution, also and chappe of non-metalike inclusions for improved.

merchinerary. The supplied product conforms to requirements expressly requested by the purchaser and conforms to requirements specified by partition during and standards. Should the product be used for more severe, critical and/or in any case different applications than those the material is generally intended for, any different and/or supplications than the product by the Purchaser. Accepted to be specifically demanded, at least, upon order of the Product by the Purchaser. Accepted to be product as all not be responsible for any improper use of the

Vicenza, 21/01/16

ULOS MCED

Hgo,) Works inspector / Labeut & usine

Pagina - 2 dl 2

M. Rizzotto Chart

MATERIAL: <u>M4/</u> DATE:		75	PO / BATCH	н no.: <u>03</u> /	9766/5	(671991
MATERIAL CERT REC'D: QUANTITY RECEIVED: QUANTITY INSPECTED: QUANTITY REJECTED:	V.es 15' 15'	THI	CKNESS ORDE CKNESS RECE EET SIZE ORDE EET SIZE RECE	RED: 1	375 375	- - -
DESCRIPTION	NCR (Check Y/N)		COMMEN	TS		
SURFACE DAMAGE	YIN					
CORRECT FINISH	MM					
CORROSION	Y (A)				31	
CORRECT GRAIN DIRECTION	(Y) N		***			
CORRECT MATERIAL PER M-DRAWING	MY) N AS	m 324				
CORRECT THICKNESS	(Y) N					
PHOTO REQUIRED	Y (N)					
CORRECT REF # TO LINK CERT	(Y) N Hear	FIL1867	74/			
CORRECT MATERIAL IDENTFICATION		10000				
CORRECT M# ON THE MATERIAL	(Y) N					
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	YN					
DOES THIS REQUIRE AN						
EXTRUSION REPORT	Y (N)					
CUT SAMPLE PIEC				SS CHECK.		
		ESULTS BELOV				
TYPE OF MATERIAL	HRC	HRB	DUR A	DUR D	WEBSTER	
SIZE OF TEST SAMPLE						
HARDNESS / DUROMETER READI	NG -					
THE READ TO THE TEN NEAD TO TH		in the Quality Offic				
	<u>testers located</u>	in the Quanty One	<u>,e</u>			
QC 18 INSPECTION			FNGINEER	ING SIGNOE	F (if required)	
INSPECTED BY: DAS		SIG	NED OFF BY:		r (ii required)	
DATE: 9-89 MAY 1	3 2018		DATE:			
Attach this inspection sheet with the		erial cert and romit		nd received !-		

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in



info@metauxsolutions.com T 450 641-3330

Ext: 1-800-967-2003

CERTIFICAT D'ANALYSE

DART AEROSPACE LTD 1270, ABERDEEN STREET HAWKESBURY, ONTARIO K6A 1K7

8 mai 2018

_										
/ J	10 K	1ption: D X 12' R 186784	\mathcal{N}_{i}		TREATED	S/R OR ST 506029	RESS FRE Line	E BAR Total: 2	23 LB	
SA A A E A	peci STM / STM / STM / N 10: STM /	fications A434 CL B A304 11 A29 15 204 3.1 0	C 12	AST AST AST AST	TM A193 TM A322 TM A962 TM A255 TM E381	GR B7 15 13 14 10 01	A A M A	STM A108 STM A331 IC2016 1 STM E10 STM E709	3 13 95 .2 15	
_					CHEMI	CAL ANALY	SIS			
0	C .42	MN 0.94	0.2	3I 26	P 0.012	S 0.021	CI 1.02	R 2 0	NI .10	MO 0.23
0	CU .16	AL 0.02	0.0	CA 1009						
RO	CPT:	R186462				COUNTRY			PAIN	
						ICAL PRO	PERTIES			
DE	SCRI	PTION	YLD S KSI 126.0	TR	ULT TEN KSI 139.0	%ELON IN 02 19.8	NG %R IN IN 3 60	ED HAI AREA	RDNESS BHN 291	
I	DEAL	DIAMETER	: 6.426	IN GR	AIN SIZE	:7 -				
CLE	EANLI	NESS								
		THIN MAX	MAX	IVLAX	MAX	THIN MAX	MAY	MAV	D THICK MAX	
	E45	1.5	0.0	1.0	0.0	0.0	0.0	0.5	0.0	



2625, Boul. Jacques-Cartier Est Longueuil (Québec) J4N 1L7 info@metauxsolutions.com T 450 641-3330

Ext: 1-800-967-2003

DART AEROSPACE LTD 1270, ABERDEEN STREET HAWKESBURY, ONTARIO K6A 1K7

STRAND CAST VACUUM DEGASSED

MATERIAL IS FREE FROM MERCURY CONTAMINATION

NO WELD REPAIR PERFORMED ON MATERIAL EDDY CURRENT/MAGNETIC TEST PERFORMED

THERMAL TREATMENT: OK

QUENCHED 1562F 45 MINUTES

OIL COOLED 95F START, 112F FINISH

TEMPERED 1202F 150MINUTES, AIR COOLED

MACRO: OK

MICRO1: OK

COMMENTS

melt & mfg in USA free from harmful radioactive contamination red. ratio 305.9:1

COMMANDE: 134879

Métaux Solutions inc. certifie que les analyses sur ce document sont exactes et que le matériel rencontre les spécifications énumérées.

Préparé par



DESIGN	DRAWN BY	DART AEROSPAC HAWKESBURY, ONTARIO, C	
CHECKED	APPROVED	DRAWING NO. M4140H-R	REV. A SHEET 1 OF 1
DATE		TITLE	SCALE
Δ	05.02.21	NEW ISSUE	1:1

PURCHASE MATERIAL: AIST 4140 H ROUND BAR

PER AISI 4140 OR ASTM A304-02/-A-434-BC/

-A193-03-GRADE-B7 /-A29-03/-A322-91 OR

UNS # - 641400

MINIMUM ULTIMATE TENSILE STRENGTH = 100 Ksi MINIMUM YIELD TENGILE STRENGTH = 66 Ksi

WHERE D. DDD : DIAMETER IN INCHES M4140H-R D.DDD PART NUMBER:

EG. 78" ROUND BAR = M41404-R0.875



Copyright © 2005 by DART AEROSPACE LTD

THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD.

MATERIAL: _ DATE: _	MT-4140-5-150 MAY 1 6 2018	10 72.000 PO / BATCH NO.: 039 766 / SO 71990
MATERIAL CERT REC'D:	Yes	THICKNESS ORDERED: 1.500
QUANTITY RECEIVED:	61	THICKNESS RECEIVED: 1.500
QUANTITY INSPECTED:	6'	SHEET SIZE ORDERED: V/A
QUANTITY REJECTED:	Ø	SHEET SIZE RECEIVED:
	(, , , ,

DESCRIPTION	(Cr	CR neck (N)	COMMENTS
SURFACE DAMAGE	Υ	N	
CORRECT FINISH	Y	M	
CORROSION	Y	N	
CORRECT GRAIN DIRECTION	(Y)	N	
CORRECT MATERIAL PER M-DRAWING	(Y)	N	Aston A-879
CORRECT THICKNESS	(Y)	N	
PHOTO REQUIRED	Y	(N)	1 1 0
CORRECT REF # TO LINK CERT	(Y)	N	HOEX II VM QUX 23
CORRECT MATERIAL IDENTFICATION	00	N	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
CORRECT M# ON THE MATERIAL	(Y)	N	
DOES THIS MATERIAL REQUIRE			
ENGINEERING SIGN OFF	Υ	N	
DOES THIS REQUIRE AN		7	
EXTRUSION REPORT	Υ	N)	

CUT SAMPLE PIECE OF	MATERIAL A	ND PREFOR	M A HARDNE	SS CHECK.					
F	RECORD RES	ULTS BELOV	\wedge						
5	HRC	HRB	DUR A	DUR D	WEBSTER				
TYPE OF MATERIAL									
SIZE OF TEST SAMPLE					+				
HARDNESS / DUROMETER READING									

testers located in the Quality Office

QC 18 INSPECTION		ENGINEERING SIGNOFF (if required)
INSPECTED BY:	DAS 11	SIGNED OFF BY:
DATE:	9-89 MAY 1 6 2018	DATE:

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

2625, Boul. Jacques-Cartier Est Longueuil (Québec) J4N 1L7 info@metauxsolutions.com T 450 641-3330

Ext: 1-800-967-2003

CERTIFICAT D'ANALYSE

DART AEROSPACE LTD 1270, ABERDEEN STREET HAWKESBURY, ONTARIO K6A 1K7

11 mai 2018

Alt by the world Schollers to	urch separation in	la tallet	27 (6) 1: "6" [] "	3 (1-1	THE PERSON	/AVE ! A	algie): (ricte).	lia i Jahi	II. II. P. T. S.
MSP15000	1		1.00		2,147.00	and the same of th	0.00		A ALU GUPUNGUNGU
1-1/2 X 34" X 146") C	2		PLA	TE 414	0/42 PREHAR	D	N		
ASTM A-829 \ ~					1				
DFARS Comptiant				/	1001				
PLATE#: 426495a		PM	HEAT#(:	9482	3		BHN	294.00	
Country of Origin SLC	VENIA								
C - 0.4000 N	ln - 0.7800	P -	0.0080	S-	0.0005	Si -	0.2340	Ni -	0.1000
Cr- 0.9800 N	lo - 0.1500	Cu -	0.2020	V -	0.0330				

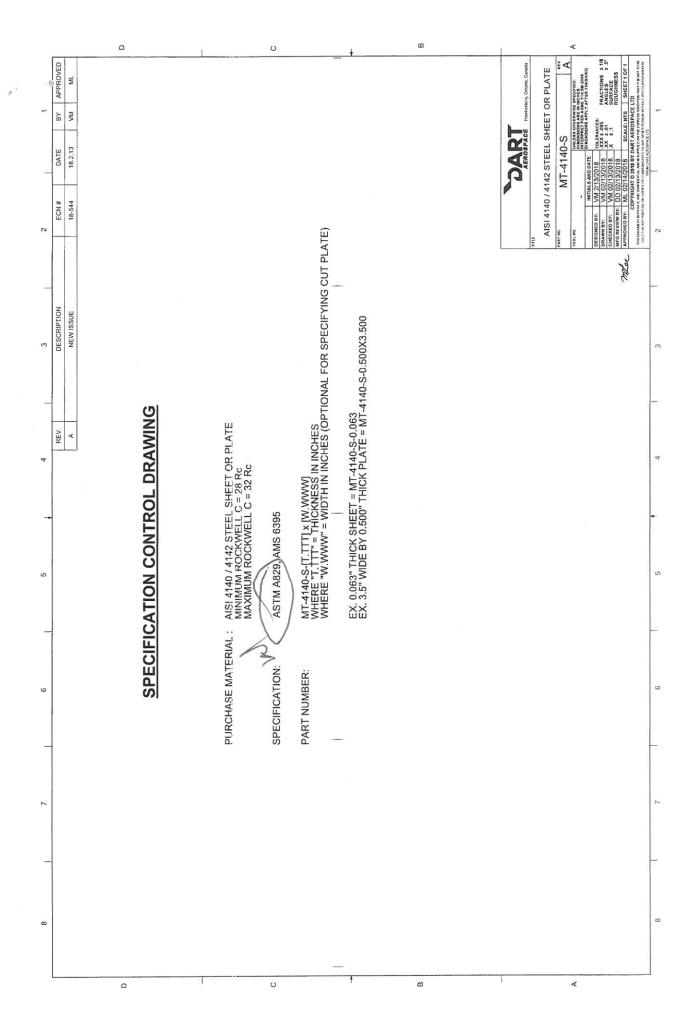
ITEM 7:

1 X 2" X 72"

COMMANDE: 134879

REF: 39766

Métaux Solutions inc. certifie que les analyses sur ce document sont exactes et que le matériel rencontre les spécifications énumérées.



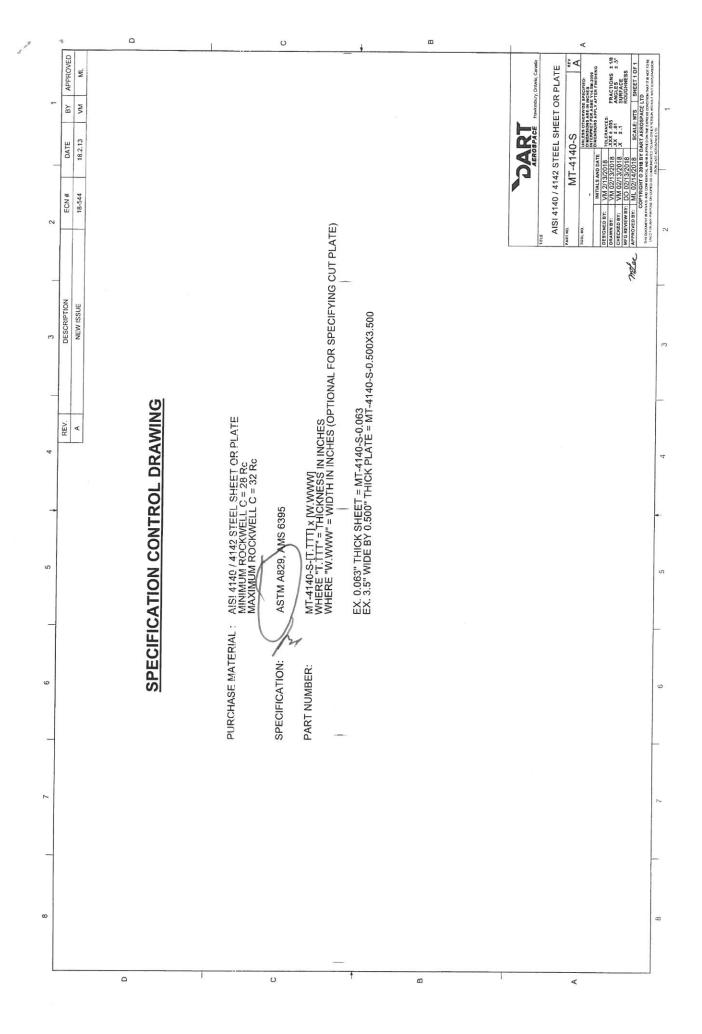
MATERIAL: M7-4 DATE:	<u>1140-5-0.7</u> AY 1 6 ZU18	50x2-250	PO / BATC	н no.: <u>039</u>	766/50
MATERIAL CERT REC'D: QUANTITY RECEIVED: QUANTITY INSPECTED: QUANTITY REJECTED:	Yes 61 9	THI	CKNESS ORDI CKNESS RECE EET SIZE ORDI EET SIZE RECE	ERED: N	
DESCRIPTION	NCR (Check Y/N)		COMMEN	TS	
SURFACE DAMAGE	YN				
CORRECT FINISH	MN				
CORROSION	Y (N)				
CORRECT GRAIN DIRECTION	YN	1			
CORRECT MATERIAL PER M-DRAWING	(Y) N ASTU	n A-82	9		
CORRECT THICKNESS	(A) N	1			
PHOTO REQUIRED	Y (N)	1 1 0			
CORRECT REF # TO LINK CERT	(V) N HOW	TPM	14680		
	(X) N	. 1	7.6		
CORRECT M# ON THE MATERIAL	(Y) N				
DOES THIS MATERIAL REQUIRE	v a				4F-3
ENGINEERING SIGN OFF	Y (N)				
DOES THIS REQUIRE AN EXTRUSION REPORT	Y (2)				
EXTRUSION REPORT	YI(N)I				
CUT SAMPLE PIECE	OF MATERIAL	AND PREFOR	M A HARDNE	SS CHECK	
		SULTS BELOV		OO ON LON.	
	HRC	HRB	DUR A	DUR D	WEBSTER
TYPE OF MATERIAL					
SIZE OF TEST SAMPLE					
HARDNESS / DUROMETER READIN	G				
	testers located in	n the Quality Offi	ce		
QC 18 INSPECTION			ENGINEER	RING SIGNOF	FF (if required)
INSPECTED BY: DAS	-				
INSECTED RA. MA		SIGI	VED OFF BV.		

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

DATE:

9-8MAY 1 6 2018

DATE:





2625, Boul. Jacques-Cartier Est Longueuil (Québec) J4N 1L7 info@metauxsolutions.com T 450 641-3330

Ext: 1-800-967-2003

CERTIFICAT D'ANALYSE

DART AEROSPACE LTD 1270, ABERDEEN STREET HAWKESBURY, ONTARIO K6A 1K7 11 mai 2018

	1:1:10		1 40 - 12		- 1.H-1	14.5 .				15(r) 1.4.1a.		Pitt 3
/	MSP07500			7/1		1.00		1,075.00		0.00		
	3/4 X 33 3/4	4" X 144 1	5/16"	1)			PLAT	E 4140/42 F	PREH			
\succeq	ACTM A 92						4					
/	ASTM A-82					2		1 /				
	DFARS Col	mpliant				/		1 (1)				
	PLATE#:	42534	7b		PM H	IEAT#:/	94680) 0 (BHN	318.00	
	Country of (Origin S	LOVENIA			(
	C-	0.4000	Mn -	0.7840	P -	0.0080	S-	0.0006	Si -	0.2120	Ni -	0.1300
	Cr-	0.9800	Mo -	0.1600	Cu -	0.2010	V -	0.0410				

ITEM 6:

1 X 2.25" X 64"1/4

COMMANDE: 134879

REF: 39766

Métaux Solutions inc. certifie que les analyses sur ce document sont exactes et que le matériel rencontre les spécifications énumérées.

Préparé par

MATERIAL: M+ C	//40 MAY	16	2019	<u> </u>	00	PO / BATC	:H NO.: <u>039</u>	766/50			
MATERIAL CERT REC'D: QUANTITY RECEIVED: QUANTITY INSPECTED: QUANTITY REJECTED:	12	121				THICKNESS ORDERED: 1.750 THICKNESS RECEIVED: 1.750 SHEET SIZE ORDERED: NAME OF THE PROPERTY OF					
DESCRIPTION	(Cr	CR heck (/N)				COMMEN	NTS				
SURFACE DAMAGE	Y	TÑ)									
CORRECT FINISH	(Y)	N									
CORROSION	Y	(N)									
CORRECT GRAIN DIRECTION	(Y)	JA				7-7%					
CORRECT MATERIAL PER M-DRAWING	Y	N	ACTO	nAX	29						
CORRECT THICKNESS	(Y)	N	100	- 7 0	01						
PHOTO REQUIRED	Y	(1)	1 1	A							
CORRECT REF # TO LINK CERT	(X)	N	Heat	# Pin	194	38/					
CORRECT MATERIAL IDENTFICATION	W	N		1 100	11						
CORRECT M# ON THE MATERIAL	(Y)	N			Indexen ver ever						
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF) Y	(3)			1100						
DOES THIS REQUIRE AN EXTRUSION REPORT	Υ	B				-					
		V									
CUT SAMPLE PIECE				ND PRE			SS CHECK.				
			HRC	HRE		DUR A	DUR D	WEBSTER			
TYPE OF MATERIAL	- 1					20	2011	TVEDOTER			
SIZE OF TEST SAMPLE	1						<u> </u>	+			
HARDNESS / DUROMETER READIN	NG				\neg			+			
	te	sters	located in	the Quality	/ Office						
	20 10					•					

9-89MAY 1 6 2018 Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

ENGINEERING SIGNOFF (if required)

SIGNED OFF BY: ___

DATE:

QC 18 INSPECTION

INSPECTED BY:

DATE:

APPROVED AISI 4140 / 4142 STEEL SHEET OR PLATE Z NA VM DART MT-4140-S 18.2.13 DATE ECN# 18-544 MT-4140-S-[T.TTT] x [W.WWW]
WHERE "T.TTT" = THICKNESS IN INCHES
WHERE "W.WWW" = WIDTH IN INCHES (OPTIONAL FOR SPECIFYING CUT PLATE) maloc DESCRIPTION NEW ISSUE EX. 0.063" THICK SHEET = MT-4140-S-0.063 EX. 3.5" WIDE BY 0.500" THICK PLATE = MT-4140-S-0.500X3.500 SPECIFICATION CONTROL DRAWING AISI 4140 / 4142 STEEL SHEET OR PLATE MINIMUM ROCKWELL C = 28 Rc MAXIMUMAQCKWELL C = 32 Rc REV. ASTM A829, AMS 6395 PURCHASE MATERIAL: SPECIFICATION: PART NUMBER: 8 8 В 4 O 0

8

Ω



2625, Boul. Jacques-Cartier Est Longueuil (Québec) J4N 1L7

info@metauxsolutions.com T 450 641-3330

Ext: 1-800-967-2003

CERTIFICAT D'ANALYSE

DART AEROSPACE LTD 1270, ABERDEEN STREET HAWKESBURY, ONTARIO K6A 1K7

11 mai 2018

PO LINE

Product Description

MSP17500

1-3/4 X 34 1/4" X 146 1/8"

ASTM A-829

DFARS Compliant

PLATE#: 421477B

Country of Origin SLOVENIA

C-0.4100 Cr -

0.9900

Mn -

Mo -

P-

0.7910 0.1500

Cu -

0.0070 S-0.2230

PM HEAT#

Shipped Pcs

94381

1.00

0.0340

Shipped Lbs

2,519.00

PLATE 4140/42 PREH,

0.0003

Si -

0.2460 Ni -

BHN

Back Ordred

0.00

295.00

0.2000

ITEM 5:

2 X 10" X 72"

COMMANDE: 134879

REF: 39766

Métaux Solutions inc. certifie que les analyses sur ce document sont exactes et que le matériel rencontre les spécifications énumérées.

Préparé par

MATERIAL: Mt	4140-5	-1.000	X10000	PO / BATCI	HNO.: <u>039</u>	7-766 5071	
DATE:	MAY 16	2018	_		,	, ,	
MATERIAL CERT REC'D:	100		7.11	0141500 055	/ 0	al_	
	10	THICKNESS ORDERED: 1.000					
QUANTITY RECEIVED:	12	_ THIC	CKNESS RECE	IVED: 1,00	10,		
QUANTITY INSPECTED:	12'	_ SHE	ET SIZE ORDE	RED://	11.		
QUANTITY REJECTED:	0		SHE	ET SIZE RECE	IVED: 1	14	
	NCR						
DESCRIPTION	(Check			COMMEN	TS		
	Y/N)_						
SURFACE DAMAGE	YN	-					
CORRECT FINISH	Y N						
CORROSION	YN						
CORRECT GRAIN DIRECTION	Y N	1 /	_				
CORRECT MATERIAL PER M-DRAWING	(Y) N	Asta	1 A82	7			
CORRECT THICKNESS	(Y) N	<i>r</i>	,,,,,,				
PHOTO REQUIRED	Y (M) ,	1/ 1				
CORRECT REF # TO LINK CERT	NA	Heat-	I Ping	4723			
CORRECT MATERIAL IDENTFICATION		11 /	, ,,	/ / / /			
CORRECT M# ON THE MATERIAL	(Y) N						
DOES THIS MATERIAL REQUIRE							
ENGINEERING SIGN OFF	Y (N)						
DOES THIS REQUIRE AN	Va						
EXTRUSION REPORT	Y(N)						
	_						
CUT SAMPLE PIECE	OF MAT	TERIAL A	ND PREFORM	M A HADDNE	SS CHECK		
	RECO	ORD RES	SULTS BELOV	VI A HARDINE:	35 CHECK.		
		HRC	HRB	DUR A	DUR D	WEBSTER	
TYPE OF MATERIAL				201171	BOILD	VILDOTLIK	
SIZE OF TEST SAMPLE							
HARDNESS / DUROMETER READIN	NG						
	testers	located in	the Quality Offic	e			
QC 18 INSPECTION							
				ENGINEER	ING SIGNOF	F (if required)	
INSPECTED BY: DAS							
			SIGN	IED OFF BY:			
DATE: 9-89AY 1	6 2019			DATE:			

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

DATE:

L'alliage de qualité et de rapidité!

2625, Boul. Jacques-Cartier Est Longueuil (Québec) J4N 1L7 info@metauxsolutions.com T 450 641-3330 Ext : 1-800-967-2003

CERTIFICAT D'ANALYSE

DART AEROSPACE LTD 1270, ABERDEEN STREET HAWKESBURY, ONTARIO K6A 1K7 11 mai 2018

The foregoing the said the said to the sai	i	1.11	F 2. Feb. 7	ATTENDED	The Park	hen, my	erra Mey	(el:
MSP10000			1.00	1,446.00		0.00		
1 X 34 1/16" X 146"		and	PLA	TE 4140/42 PREH				
ASTM A-829 DFARS Compliant		J.						
PLATE#: 425896A		PM	HEAT#:	94723 JAU		BHN	300.00	
Country of Origin SLOVENIA								
C - 0.4050 Mn -	0.7560	P-	0.0080	0.0010	Si -	0.2250	Ni -	0.1300
Cr - 0.9700 Mo -	0.1500	Cu -	0.2250 \	/ -				

ITEM 4:

2 X 10" X 72"

COMMANDE: 134879

REF: 39766

Métaux Solutions inc. certifie que les analyses sur ce document sont exactes et que le matériel rencontre les spécifications énumérées.

BY APPROVED FRACTIONS ± 1/8
ANGLES ± .5*
SURFACE
ROUGHNESS AISI 4140 / 4142 STEEL SHEET OR PLATE ¥ S ZART MT-4140-S 18.2.13 DATE 18-544 ECN# 2 MT-4140-S-[T.TTT] x [W.WWW]
WHERE "T.TTT" = THICKNESS IN INCHES
WHERE "W.WWW" = WIDTH IN INCHES (OPTIONAL FOR SPECIFYING CUT PLATE) malac DESCRIPTION NEW ISSUE EX. 0.063" THICK SHEET = MT-4140-S-0.063 EX. 3.5" WIDE BY 0.500" THICK PLATE = MT-4140-S-0.500X3.500 SPECIFICATION CONTROL DRAWING PURCHASE MATERIAL: AISI 4140 / 4142 STEEL SHEET OR PLATE MINIMUM ROCKWELL C = 28 Rc MAXIMUM ROCKWELL C = 32 Rc REV. × ASTM A829, AMS 6395 SPECIFICATION: PART NUMBER: ۵ O æ 4

۵

MATERIAL:	1AY 162	750 W. 018	<u>0</u> 49 -		PO / BATC	th no.: <u>039</u>	766/50
MATERIAL CERT REC'D: QUANTITY RECEIVED: QUANTITY INSPECTED: QUANTITY REJECTED:	/es 160' 160'		- - -	THIC			
DESCRIPTION	NCR (Check Y/N)				COMMEN	NTS	
SURFACE DAMAGE	YIN	-					
CORRECT FINISH	YN						
CORROSION	Y (N)						
CORRECT GRAIN DIRECTION	(X) N	,	4				
CORRECT MATERIAL PER M-DRAWING	(Y) N	Asta	2 A5	54	160		
CORRECT THICKNESS	(A) N	, ,		-			
PHOTO REQUIRED	YW						
CORRECT REF # TO LINK CERT	(X) N	Heat.	#9	HX	55		
CORRECT MATERIAL IDENTFICATION		17	• ,				
CORRECT M# ON THE MATERIAL	N						
DOES THIS MATERIAL REQUIRE							
ENGINEERING SIGN OFF	Y (N)						
DOES THIS REQUIRE AN EXTRUSION REPORT	YN						
CUT SAMPLE PIECE	OF MAT	ERIAL A	ND PRE	FORM	A HARDNE	SS CHECK.	
	RECC	RD RES	SULTS B	ELOW			
TVDE 05.11.T=0.11	H	HRC	HRI	3	DUR A	DUR D	WEBSTER
TYPE OF MATERIAL							
SIZE OF TEST SAMPLE							
HARDNESS / DUROMETER READI							
QC 18 INSPECTION	<u>testers</u>	ocated in	the Qualit	y Office		RING SIGNOR	FF (if required)
INSPECTED BY: 9-89					***		(m roddinod)
INSPECTED BY: 9-89				SIGNIE	ED OFF BY		1

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

DATE:

DATE:

PURCHASE MATERIAL: AISI 304/316 STAINLESS STEEL SQUARE TUBING ASTM A554 MILL FINISH ASTM A269 MILL FINISH

FINISH:

WHERE:

C

PART NUMBER:

EG. 0.75" X 0.75" X 0.049 WALL = M304TS0.750W.049

WALL

PART NUMBER:

M304TS A.AAA W I.TTT WIDTH

A.AAA = WIDTH IN INCHES
.TTT = WALL THICKNESS IN INCHES

DELEASE

"SEAMLESS" ADDED TO PURCHASE MATERIAL.
ASTM A269 ADDED TO FINISH.
REASON: SPEC ADDED FOR 1/2" TUBING
DRAWING MOVED TO "B" SIZE BORDER. FINISH
ADDED (SEE NCR 08-045 FOR DETAILS). "SEAMLESS" REMOVED FROM PURCHASE MATERIAL SPECIFICATION (SEE NCR14-3818) 304/36 SQUARE TUBING
304/36 SQUARE TUBING
COPYRIGHT 6 2001 BY DATT JEDGSPACE LTD
1810000408 WANTED STORM, AS IS SENTED STORM STORMS TO THE STO DART AEROSPACE LTD
HAWKESBURY, ONTARIO, CANADA M304TS DS AJS SR 80 REV. D SHEET 1 OF 1 01.06.08 09.10.16 08.08.28 14.05.20

DATE

SCALE NONE

NEW ISSUE

REV.
DESIGN
DRAWN
CHECKED
MFG. APPR.

14.05.20

В

0

0

Kingmaker Steel Co., Inc. Stainless Steel Tube and Pipe

133 Belmont Drive, Somerset, NJ 08873-1203 Tel.: (732) 302-1800, Fax: (732) 302-1822

Date:

1/11/2018

Invoice No: KM2018/0105

Purchase

P009302

Order No:

Sold To:

Material Certification

ISO 9001:2015

ISO 14001:2004 EN 10204/3.1B

Ship To:

Stainless Steel T.I.G. Welded Tubing.

Country of Melt: Taiwan, Country of Origin: Taiwan.

									aury) of Olig	ш. т.	aiwan,
30	Item		Descrip		Jy/	Heat No.	Finish		pecification	X	Grade
11.			SQ X 0.04			9H855	MF S	AS	STM A554-16	()	MT-304
	2: 3:		F SQ X 0.12			5H982	MF		TM A554-16	_	MT-304
	4:		2" SQ X 0.1)'	5G289	MF	AS	TM A554-16		MT-304
	5:		SQ X 0.180 SQ X 0.120			5H035	MF	AS	TM A554-16		MT-304
	٥.	5	SQ A 0.120)" W X,20"	Т	BH100713	MF	AS	TM A554-16		MT-304
					CHEM	IICAL PRO	OPERTIES				
		<u>C</u>	<u>Si</u>	Mn	P	<u>s</u>	Cr	Ni	Mo	N	<u>Cu</u>
	1:	.015	.430	1.10	.035	.003	18.21	8.07		direct	
	2:	.020	.390	1.43	.029	.010	18.05	8.03			
	3:	.018	.390	1.38	.033	.004	18.27	8.05			
	4:	.024	.370	1.43	.031	.005	18.19	8.04			
	5:	.028	.430	1.21	.033	.003	18.20	8.09			

MECHANICAL PROPERTIES

	Tensile (N/mm2)	Yield (N/mm2)	Elong. (%)	Hardness (HRB)	Flattening	Hydrostatic	Eddy Current
1:	698.00	352.00	46.00	89.50			Current
2:	641.00	297.00	53.00	86.00			
3:	654.00	327.00	52.00	89.00			
4:	628.00	292.00	53.00	85.00			
5:	668.00	326.00	51.00	88.00			
WE LI	PDEDV CEDTIF	TAL TRANSPORT					

WE HEREBY CERTIFY THAT TO THE BEST OF OUR KNOWLEDGE, THE MATERIAL LISTED ABOVE HAS BEEN MANUFACTURED IN ACCORDANCE WITH AND MEET THE ABOVE APPLICABLE SPECIFICATIONS AND GRADES, AND ALSO THAT THE MATERIAL WAS PRODUCED IN A MERCURY FREE ENVIORNMENT. THE CHEMICAL COMPOSITIONS OF THE MATERIAL ARE INACCORDANCE WITH ASTM A240.

Page: 1/1

Carrie Wang

1/11/2018